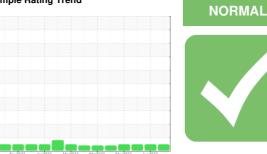


OIL ANALYSIS REPORT

Sample Rating Trend



910093

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

Fluid

DIAGNOSIS

RecommendationResample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

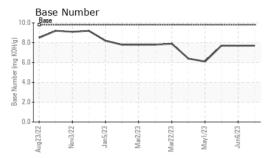
Fluid Condition

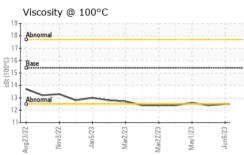
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Aug2022 No	ov2022 Jan2023 Ma	2023 Mar2023 May2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0045436	GFL0082881	GFL0082835
Sample Date		Client Info		10 Jul 2023	06 Jun 2023	19 May 2023
Machine Age	hrs	Client Info		6880	6717	6583
Oil Age	hrs	Client Info		0	302	155
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	4	5
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin		ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m	>10	0	<1	<1
Cadmium		ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	current		history2
					history1	
Boron	ppm	ASTM D5185m	0	14	17	41
Barium	ppm		0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	60
Manganese	ppm		0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	708	801	768
Calcium	ppm	ASTM D5185m	1070	1066	1127	1105
Phosphorus	ppm	ASTM D5185m	1150	879	941	902
Zinc	ppm	ASTM D5185m	1270	1097	1202	1125
Sulfur	ppm	ASTM D5185m	2060	2941	3558	3137
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	5
Sodium	ppm	ASTM D5185m		3	4	4
Potassium	ppm	ASTM D5185m	>20	4	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.1	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.7	17.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	11.6	11.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.7	7.7



OIL ANALYSIS REPORT

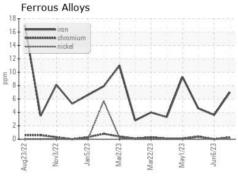


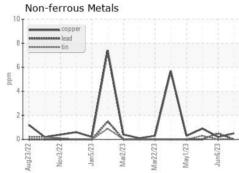


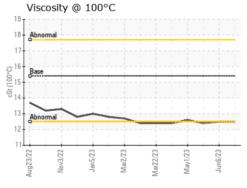
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

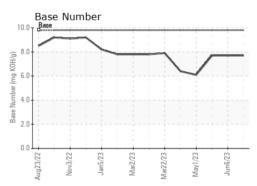
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	12.5	12.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: GFL0045436 : 05898281 : 10559637 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jul 2023 Diagnosed : 17 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: